

## PE anti-human CD85d (ILT4)

**Catalog # / Size:** 338705 / 25 tests  
338706 / 100 tests

**Clone:** 42D1

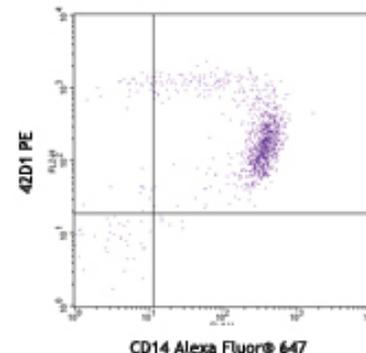
**Isotype:** Rat IgG2a,  $\kappa$

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood monocytes stained with 42D1 PE and CD14 Alexa Fluor® 647

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications include: negatively modulate myelomonocytic cells signaling. Enhance the binding of HLA-G tetramer to monocytes.

**Application References:** 1. Colonna M, *et al.* 1998. *J. Immunol.* 160:3096  
2. Allan DS. 1999. *J. Exp. Med.* 189:1149

**Description:** CD85 is a group of Ig superfamily transmembrane glycoproteins called Ig-Like Transcripts (ILTs) or Leukocyte Immunoglobulin-like Receptors (LIRs). It is composed of both activating and inhibitory isoforms. The activating subset of ILTs is characterized by containing short cytoplasmic domains and positively charged arginine residues, while the inhibitory isoforms display long cytoplasmic tails containing ITIM motifs. CD85d is a 95kD inhibitory receptor, also known as ILT4, LIR2, or MIR10. ILT4 is expressed on the surface of monocytes/macrophages, and dendritic cells. ILT4 acts as an inhibitory receptor through recruitment of SHP-1 and SHP-2 protein tyrosine phosphatases. The ligands of ILT4 are HLA-A, -B and nonclassical MHC-I molecule HLA-G1.

**Antigen References:** 1. Zola H, *et al.* 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers* Wiley-Liss A John Wiley & Sons Inc, Publication  
2. Shiroishi M, *et al.* 2003. *Proc. Natl. Acad. Sci.* 100:8856  
3. Colonna M, *et al.* 1998. *J. Immunol.* 160:3096  
4. Lichterfeld M, *et al.* 2007. *J. Exp. Med.* 204:2813

### Related Products:

**Product**  
PE Rat IgG2a,  $\kappa$  Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
Human TruStain FcX™ (Fc Receptor Blocking Solution)

**Clone**  
RTK2758

**Application**  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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